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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/583,729	05/31/2000	KENJI OMI	106330	2767		
25944	7590 11/15/2002					
OLIFF & BERRIDGE, PLC			EXAM	EXAMINER		
P.O. BOX 19928 ALEXANDRIA, VA 22320			MULLINS, BURTON S			
			ART UNIT	PAPER NUMBER		
			2834			

DATE MAILED: 11/15/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Summary.

Office Action Summary

 Application No.	Applicant(s)	
09/583,729	ОМІ	14
Examiner	 Art Unit	

	Burton S. Mullins	2834					
The MAILING DATE of this communication appe	ars on the cover sheet with the c	orrespondence address					
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply v. - If NO period for reply is specified above, the maximum statutory period wil. - Failure to reply within the set or extended period for reply will, by statute, c. - Any reply received by the Office later than three months after the mailing dearned patent term adjustment. See 37 CFR 1.704(b). Status	e(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days I apply and will expire SIX (6) MONTHS from ause the application to become ABANDONE!	ely filed will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).					
1) Responsive to communication(s) filed on <u>03 Oc</u>	ctober 2002						
	action is non-final.						
3) Since this application is in condition for allowar		osecution as to the merits is	s				
closed in accordance with the practice under E Disposition of Claims	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.					
4) Claim(s) 4 and 5 is/are pending in the application	on.						
4a) Of the above claim(s) is/are withdraw	n from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>4 and 5</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9) The specification is objected to by the Examiner.		•					
10) The drawing(s) filed on is/are: a) accept							
Applicant may not request that any objection to the							
11) The proposed drawing correction filed on If approved, corrected drawings are required in repl		ved by the Examiner.					
12) The oath or declaration is objected to by the Exa							
,	minor.						
Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign	priority under 35 H.S.C. & 110/s)-(d) or (f)					
	priority under 33 O.S.O. 3 119(6)-(a) or (i).					
a) ☐ All b) ☐ Some * c) ☐ None of:1.☐ Certified copies of the priority documents	have been received						
		on No					
3.∐ Copies of the certified copies of the priori application from the International Buro * See the attached detailed Office action for a list o	eau (PCT Rule 17.2(a)).						
14) ☐ Acknowledgment is made of a claim for domestic	priority under 35 U.S.C. § 119(e) (to a provisional applicati	on).				
a) ☐ The translation of the foreign language prov 15)☐ Acknowledgment is made of a claim for domestic	risional application has been rec c priority under 35 U.S.C. §§ 120	eived.) and/or 121.					
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement's (PTO-1449) Paner No(s)		y (PTO-413) Paper No(s) Patent Application (PTO-152)					

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DETAILED ACTION

Drawings

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "displacement created between the outer surface of the shaft and the inner surface of the inner ring abutting the outer surface of the shaft" must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Applicant, in the response filed October 3, 2002, traversed the objection. Applicant argued that Figs.1-2 show the displacement between the shaft 11 and the inner race 9b created by the retainer ring 12. However, claims 4-5 recite a "displacement created between the outer surface of the shaft [11] and the <u>inner surface</u> of the <u>inner ring</u> [inner race 9b]...." Claims 4-5 further state that the retainer ring only contacts "the inner race of one ball bearing." As can be seen in Fig.2, the retainer ring 12 does not abut the <u>inner surface</u> of the <u>inner race</u> 9b. Thus, it cannot be considered to form a "displacement" between the shaft and the <u>inner surface</u> of the inner ring.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Objections

2. Claims 4-5 are objected to because of the following informalities: On line 9, "is provided to" is not idiomatic. Does applicant mean --provided on--- or simply ---on--? Other

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instances where the passive voice renders the claim language awkward are line 10, where "is contacted with" should be changed to ---contacts---, and line 12, where "is" should be deleted. Appropriate correction is required.

Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 4. Claims 4-5 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The specification does not describe the function of "adjusting the position of each of the inner races through a displacement created between the outer surface of the shaft and the inner surface of the inner race abutting the outer surface of the shaft" nor does the specification adequately describe how this displacement is "created in relation to" the gap L₃ (Fig.2). Where does the specification describe a "displacement" between the outer surface of the shaft and the <u>inner surface</u> of the <u>inner race</u> abutting the outer surface of the shaft? What is the "relation" between this displacement and the gap? Are the inner races 8b and 9b secured to the shaft or loosely fit thereon? Where does the specification describe this feature, which appears to be critical if the inner races move both axially and radially, as applicant argues in the reply. In light of this argument, where does the specification describe radial movement of the inner races?

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- 5. Claims 4-5 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. How would one of ordinary skill be able to adjust the position of <u>each</u> of the inner races through a displacement created between the outer surface of the shaft and the <u>inner surface</u> of the <u>inner race</u> abutting the outer surface of the shaft? From Fig.2 and the description on p.5, third paragraph, it appears only one inner race 8b is movable axially by means of spring 14. How is the position of the other inner race 9b adjusted "through the displacement", in particular how is it adjustable radially? Further, what prevents the spring 14 from pushing the inner race 8b such that it abuts the other inner race 9b and thus eliminates the gap L₃ (Fig.2)?
- 6. The following is a quotation of the second paragraph of 35 U.S.C. 112:

 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 7. Claims 4-5 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The functional language "adjusting the position of each of the inner races through a displacement created between the outer surface of the shaft and the <u>inner surface</u> of the inner race abutting the outer surface of the shaft, the displacement created in relation to a gap which is formed between a side face of the inner races after the bearings are inserted..." is vague and indefinite because it is not clear how a "displacement" is created in relation to the gap between the <u>inner surface</u> of the <u>inner races</u> and the outer surface of the shaft. Does this mean that in Fig.2, both inner races 8b and 9b are loosely fit onto the shaft? It appears only

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one inner race 8b is movable axially by means of spring 14. How is the other position of the other inner race 9b adjusted radially "through the displacement"?

Further, in claim 5, recitation "which is fixed to the center portion of the yoke" is indefinite. Does this refer to the bush or the shaft?

Allowable Subject Matter

8. Claims 4-5 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action. Neither Wrobel nor Schmidt teach or suggest a blower bearing arrangement including, inter alia, a retainer ring provided at the one end of the shaft, the retainer ring contacting the inner race of one ball bearing of the two ball bearings, a bush secured to a center portion of the yoke, and a spring between the bush and the inner race of the other of the two ball bearings.

Response to Arguments

9. Applicant's arguments filed October 3, 2002 have been fully considered but they are not wholly persuasive. Applicant has failed to convince the examiner that there is support in the specification for the claimed "displacement created between the outer surface of the shaft and the <u>inner surface</u> of the <u>inner ring</u> abutting the outer surface of the shaft" (claims 4-5) and its associated function of adjusting a position of the inner races. There appears to be a displacement or "clearance" L₃ (specification, p.5, lines 16-17; Fig.2) between the inner races, as well as a "displacement" between the inner race 9b and the shaft portion 11 formed by the retainer ring 12 which "abuts to the inner race 9b of the ball bearing 9" (p.4, lines 12-13;

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Fig.2); however, there is no disclosure of a displacement between the inner surface of the

inner ring (or race) 9b and the outer surface of the shaft 11.

Conclusion

10. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure.

11. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Burton S. Mullins whose telephone number is 305-7063. The

examiner can normally be reached on Monday-Friday, 9 am to 5 pm. If attempts to reach the

examiner by telephone are unsuccessful, the examiner's supervisor, Nestor Ramirez can be

reached on 308-1371. The fax phone numbers for the organization where this application or

proceeding is assigned are 305-1341 for regular communications and 305-1341 for After Final

communications. Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is 308-0956.

Burton S. Mullins Primary Examiner

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bsm

November 13, 2002